

IMPERIAL AGRICULTURAL RESEARCH
CONFERENCE, 1927.



LIST

of

Agricultural Research Workers

In the British Empire.

1928.



LONDON:

PRINTED UNDER THE AUTHORITY OF HIS MAJESTY'S STATIONERY OFFICE,
By WYMAN & SONS, LTD., FETTER LANE, LONDON, E.C.4.

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10, WHITEHALL PLACE, LONDON, S.W.1.

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It was a recommendation of the Imperial Agricultural Research Conference, 1927, that the "List of Agricultural Research Workers in the Empire," prepared for the Conference, should be revised and periodically circulated.

The "List" prepared for the Conference has accordingly been revised to show the names of agricultural research workers and their investigational subjects in 1928. The list gives the principal officers in the British Empire, the whole, or the major part, of whose duties consists in the carrying out of agricultural research. The list is given, in the first place, according to country: and, in the second place, according to subject. The latter list is in alphabetical order. The materials for compilation of the list were supplied by the Governments of the different countries.

Ministry of Agriculture and Fisheries,
10, Whitehall Place,
London, S.W. 1.

February, 1929.

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H. H. Randell, *Assistant Bacteriologist* : bacteriology of dairy products.
W. S. Sutton, B.Sc.Agr., *Assistant Biologist* : *dairy bacteriology.*
A. A. Ramsay, F.A.C.I., *Chief Chemist*, and Staff : poisonous plants, fertilisers, soils, sprays, dairy chemistry, irrigation.
W. J. Allen, *Fruit Expert* : diseases of fruit, cultural methods, pruning.
E. A. Southee, O.B.E., M.A.(Oxon.), B.Sc.Agr. (Syd.), F.L.S., *Principal Hawkesbury Agricultural College*, J. Hadlington, *Poultry Expert*, and C. Lawrence, *Poultry Instructor* : the inheritance of fecundity in fowls.
J. T. Pridham and J. P. Shelton, *Plant Breeders* : cereal breeding.
W. B. Gurney, B.Sc., F.E.S., *Entomologist*, T. McCarthy, *Assistant Entomologist*, E. H. Zeck, *Assistant Entomologist*.
H. R. Woodhill, B.Sc.Agr., *Assistant Entomologist*, S. L. Allman, *Assistant Entomologist*, and R. N. McCulloch,

B.Sc.Agr., Assistant Entomologist : insect pests of animals, crops and fruit and their control by parasites, spraying, etc.

- L. T. MacInnes, Dairy Expert.
- F. B. Hinton, Sheep and Wool Expert.
- G. P. Darnell-Smith, D.Sc., F.I.C., F.C.S., Director, Botanic Gardens : plant pathology, dairy bacteriology.
- J. N. Whittet, H.D.A., Agrostologist : renovation of pastures.

OTHER DEPARTMENTS :—

- J. A. Cresswick, A.A.C.I., F.C.S., Consulting Chemical Engineer, Metropolitan Meat Industry Board, and E. A. Carlisle, A.A.C.I., A.S.T.A., Chemist, Metropolitan Meat Industry Board : manufacture and use of standard rennet, and animal foods.
- R. D. Watt, M.A., B.Sc., Professor of Agriculture and Dean of the Faculty, University of Sydney : soil physics and fertilisers.
- G. Wright, Lecturer on Agricultural Chemistry and Bacteriology, University of Sydney : native and exotic plants of economic importance, soil bacteriology.
- W. L. Waterhouse, B.Sc.Agr., D.I.C. (Lond.), Lecturer on Agricultural Botany, Plant Pathology, Genetics and Plant Breeding, Sydney University : plant pathology and genetics.
- A. J. Nicholson, M.Sc., Lecturer on Entomology and Agricultural Entomology, University of Sydney : entomological problems.
- E. S. West, M.Sc., E. MacKinnon, B.Sc., F. K. Watson, M.A., B.Sc.Agr., B.Sc. (Engin.), A.M.I.C.E., and J. Vagg, Commonwealth Citrus Research Station, Griffith : soil physics, irrigation, fertilisers.

VICTORIA.

DEPARTMENT OF AGRICULTURE :—

Director of Agriculture :—

S. S. Cameron, D.V.Sc., M.R.C.V.S.

Agricultural Division :—

- H. A. Mullett, B.Ag.Sc., Superintendent, Agricultural Division.
- W. R. Jewell, M.Sc., Agricultural Research Chemist.
- F. Penman, M.Sc., Assistant Research Chemist.
- Mary Simpson, B.Ag.Sc., Cereal Chemist : milling and baking problems.
- J. K. M. Skene, B.Ag.Sc., Science Field Officer : biochemical problems.
- J. Brake, M.Ag.Sc., Senior Inspector, Field Branch.
- J. Keane, B.Ag.Sc., Chief Science Field Officer.
- P. Ryan, B.Ag.Sc., Inspector of Agriculture.
- W. B. Miller, M.Ag.Sc., Inspector of Agriculture.

- R. L. Twentyman, B.Ag.Sc., *Science Field Officer.*
 A. B. Hackwell, B.Ag.Sc., *Science Field Officer.*
 A. C. T. Hewitt, B.Ag.Sc., *Science Field Officer.*
 J. A. Morrow, B.Ag.Sc., *Science Field Officer.*
 T. A. J. Smith, *Tobacco Specialist.*
 J. T. Ramsay, *Potato Specialist.*
 C. C. Brittlebank, *Biologist, Science Branch.*
 D. B. Adam, B.Ag.Sc., *Plant Pathologist.*
 S. Fish, B.Ag.Sc., *Assistant Plant Pathologist.*
 R. T. M. Prescott, B.Ag.Sc., *Assistant Plant Pathologist.*
 G. B. Tindale, B.Ag.Sc., *Cold Storage Research Officer.*
 C. French, *Entomologist.*
 G. T. Levick, B.Ag.Sc., *Assistant Entomologist.*

Live Stock Division :—

- E. A. Kendall, B.V.Sc., *Acting Chief Veterinary Inspector.*
 R. N. Johnstone, B.V.Sc., *Senior Veterinary Officer.*
 R. Griffen, M.R.C.V.S., R. J. de C. Talbot, B.V.Sc., N. M. Lerew, G.M.V.C., W. D. Shew, B.V.Sc., R. N. Wardle, B.V.Sc., S. A. Mountjoy, B.V.Sc., J. Kendall, B.V.Sc., *Veterinary Officers.*

Horticultural Division :—

- J. M. Ward, *Superintendent.*
 F. M. Read, M.Ag.Sc., *Horticultural Research Officer.*
 A. G. Strickland, B.Ag.Sc., *Horticultural Research Officer.*
 F. de Castella, *Viticulturist.*
 S. A. Cook, *Citriculturist.*

Central Research Farm, Werribee.

- H. C. Wilson, *Manager.*
 L. C. Bartels, B.Ag.Sc., *Senior Irrigation Officer.*
 E. T. Beruldsen, B.Ag.Sc., *Irrigation Field Officer.*
 G. Gordon, *Cerealist.*
 A. R. Raw, B.Ag.Sc., *Assistant to Cerealist.*
 A. J. Vasey, B.Ag.Sc., *Cereal Research Officer.*
 H. C. Forester, B.Ag.Sc., *Cereal Research Officer.*
 A. Morgan, B.Ag.Sc., *Weeds Research Officer.*

Rutherglen Experiment Station :—

- C. P. Goulding, B.Ag.Sc., *Acting Manager.*

Government Experiment Station, Longerenong.

- R. S. McTaggart, *Manager.*
 W. J. B. McDonald, B.Ag.Sc., *Cereal Research Officer.*

MELBOURNE UNIVERSITY :—

School of Agriculture :—

- Prof. S. M. Wadham, M.A.
 W. H. Green, D.Sc., *soil physics.*

Eg
W. J. Young, D.Sc., cold storage and food preservation.
Isobel Cookston, M.Sc.

Botany School :—

Prof. A. J. Ewart, D.Sc., Ph.D., F.R.S., F.L.S.
Ethel McLennan, D.Sc.

Veterinary School :—

H. E. Albiston, M.V.Sc., *Veterinary Pathologist.*

IRRIGATION RESEARCH COMMITTEE.

Members :—

S. S. Cameron, D.V.Sc., M.R.C.V.S. ; W. Cattanach, C.M.G. ;
H. A. Mullett, B.Agr.Sc., and G. Laing.

QUEENSLAND.

DEPARTMENT OF AGRICULTURE AND STOCK.

Botany :—

C. T. White, *Government Botanist.*

Division of Entomology and Plant Pathology :—

R. Veitch, *Chief Entomologist*, in charge of Entomological Division.
H. Tryon, general plant pathological research.
J. L. Froggatt, *Entomologist* : insect pests of banana plantations.
Hubert Jarvis, *Entomologist* : insect pests of deciduous fruits.
J. H. Simmonds, *Plant Pathologist*.
G. A. Currie, insect pests of cotton.

Agricultural Chemistry :—

J. C. Brunnich, *Agricultural Chemist*, E. H. Gurney, *Senior Analyst*, G. R. Patten, *Analyst*, W. G. McKechnie, *Analyst* and O. St J. Kent, *Analyst* : feeding experiments with prickly pear, digestibility of fodders with sheep, hydrocyanic acid contents of fodder plants, and soil acidity, and tannin contents of native trees, analyses of pasture grasses, shrubs and herbs.

Cotton :—

W. G. Wells, *Cotton Specialist*.
R. W. Peters, *Cotton Experimentalist*.
L. Hodge, *Manager, Cotton Research Station, Biloela.*

Fruit :—

George Williams, *Director of Fruit Culture*.
H. Collard, *Horticulturist.*

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Agricultural Branch :—

H. C. Quodling, *Director of Agriculture.*

R. E. Soutter, *Manager, State Farm, Bungeworgorai, via Roma:*
plant breeding experiments, improvement of pastures,
cropping experiments.

Dairying :—

C. J. McGrath, *Supervisor of Dairying.*

Seeds, Fertilisers and Stock Foods Investigation Branch :—

F. F. Coleman, *Officer-in-charge.*

Veterinary Branch :—

A. H. Cory, M.R.C.V.S., *Chief Inspector of Stock.*

Stock Diseases Experiment Station, Yeerongpilly :—

C. J. Pound, *Government Bacteriologist.*

St. G. Thorn, *Assistant Bacteriologist.*

F. R. Thomson, *Assistant Bacteriologist.*

G. D. Daly, *Assistant Bacteriologist:* destruction of the cattle tick, immunisation against tick fever, pleuro-pneumonia, contagious mammitis.

Stock Diseases Experiment Station, Townsville :—

J. Legg, M.R.C.V.S., *Director.*

BUREAU OF SUGAR EXPERIMENT STATIONS.

H. T. Easterby, *Director:* sugar field work, studies of soils, rotations of crops, &c.

J. Pringle, *Chemist-in-charge Sugar Experiment Station, Bundaberg:* growth and cultivation of sugar cane, fertilising and experimenting with new varieties from abroad.

F. Keogh, *Chemist-in-charge:* work similar to Bundaberg.

E. Barke, *Chemist-in-charge Sugar Experiment Station, South Johnstone:* work as above, also the carrying out of seedling propagation and research work in connection therewith.

E. Jarvis, *Entomologist, assisted by Messrs. G. H. Buzacott and W. A. McDougall, Assistant Entomologists, Entomological Laboratory near Cairns.*

C. von Stieglitz, *Analyst in Brisbane:* soil analyses and soil problems.

A. N. Burns, *Assistant Entomologist, Mackay.*

R. W. Mungomery and G. Bates, *Assistant Entomologists, Bundaberg.*

A. F. Bell, *Pathologist, Bundaberg.*

E. J. F. Wood, G. Wilson, and N. L. Kerry, *Assistants to Pathologist, Bundaberg.*

N. Bennett, *Sugar Technologist, Mackay.*

H. W. Kerr, *Soils Technologist.*

**THE QUEENSLAND AGRICULTURAL HIGH SCHOOL AND COLLEGE,
GATTON.**

- J. K. Murray, *Principal*: dairy bacteriology; feeding of farm stock; rural economics.
- A. J. McKenzie, *Lecturer in animal husbandry and breeding*: contagious abortion in cattle; feeding farm stock.
- R. R. Keats, *Instructor in dairying*: pasteurisation of milk for cheese making.
- J. R. A. McMillan, *Plant Breeder*.
- A. McD. Armstrong, *Science Master*: soil chemistry, dairy chemistry, chemistry of fuels and oils.
- J. W. Howie, *Horticulturist*: Queensland fruit fly; sprays.

THE UNIVERSITY OF QUEENSLAND.

Department of Biology :—

- Professor E. J. Goddard (*Head of the Department of Biology*) banana diseases.
- D. A. Herbert, *Lecturer in Botany and in Plant Pathology* banana diseases.
- G. H. Hardy, *Walter and Eliza Hall Fellow in Economic Biology* control of sheep blow fly.
- F. A. Perkins, *Stanhope Research Fellow in Entomology*: biology of Queensland fruit fly.

SOUTH AUSTRALIA.

DEPARTMENT OF AGRICULTURE.

- A. J. Perkins, *Director*: Economic and general agricultural research.
- W. J. Spafford, *Deputy Director*: general agricultural research.
- R. C. Scott, *Supervisor of Experimental Work*: general agricultural Research.
- H. B. Barlow, *Chief Dairy Instructor*: dairy research.
- G. Quinn, *Horticultural Instructor*: horticultural research.
- D. F. Laurie, *Poultry Expert*.

ROSEWORTHY AGRICULTURAL COLLEGE.

- W. R. Birks, *Principal*: general agricultural research.
- T. A. Coles, *Experimentalist*: general agricultural research.
- F. S. Oldham, *Cerealist*: plant breeding.
- A. T. Jefferis, *Agricultural Chemist*: general agricultural research.

GOVERNMENT EXPERIMENTAL AND DEMONSTRATION FARMS.

- F. E. Waddy, *Manager*, Turretfield.
- E. A. Bristow, *Manager*, Booborowie.
- S. C. Billinghurst, *Manager*, Eyre's Peninsula.
- L. J. Cook, *Manager*, Kybybolite.
- S. Smith, *Manager*, Veitch.

GOVERNMENT EXPERIMENTAL ORCHARDS.

N. J. Fotheringham, *Manager*, Berri.
 R. Fowler, *Manager*, Coromandel Valley.

GOVERNMENT POULTRY STATION.

C. F. Anderson, *Manager*.

WAITE AGRICULTURAL RESEARCH INSTITUTE (under control of the University of Adelaide).

Dr. A. E. V. Richardson, *Director*: general agricultural research.
 A. J. Prescott, *Professor of Agricultural Chemistry*.
 G. Samuel, *Plant Pathologist*.
 J. Davidson, D.Sc., F.L.S., *Entomologist*.

WESTERN AUSTRALIA.

UNIVERSITY OF W. AUSTRALIA.

Professor J. W. Paterson, B.Sc., Ph. D., *Professor of Agriculture*.

DEPARTMENT OF AGRICULTURE.

G. L. Sutton, *Director*: wheat and oat breeding.
 W. M. Carne, F.L.S., *Economic Botanist and Plant Pathologist*.
 L. J. Newman, F.E.S., *Economic Entomologist*.
 H. W. Bennetts, M.V.Sc., *Veterinary Pathologist*.
 P. G. Hampshire, *Superintendent of Dairying*.
 G. K. Baron-Hay, *Assistant Superintendent of Dairying*.
 G. K. Wickens, *Superintendent of Horticulture*.
 I. Thomas, *Superintendent of Wheat Farms*.
 F. Murray-Jones, *Chief Veterinary Officer*.
 G. N. Lowe, *Senior Potato Inspector*.
 Dr. L. J. H. Teakle, *Research Officer and Adviser in Plant Nutrition*.

TASMANIA.

DEPARTMENT OF AGRICULTURE.

Alex. Nelson, B.Sc., Ph.D., *Superintendent of Research*.
 C. L. Gillies, B.Ag., B.Sc., *Senior Agronomist*.
 R. A. Scott, H.D.A., *Agronomist*.
 T. H. Atkinson, H.D.A., N.D.D., *Senior Dairy Officer*.
 R. C. T. Philp, L.V.Sc., *Senior Veterinarian*.
 D. T. Oxer, B.V.Sc., *Veterinarian*.
 F. H. Johnstone, B.Sc., *Agricultural Chemist*.
 H. M. Nicholls, *Entomologist*.
 Vacant—*Mycologist*.
 P. H. Thomas, *Senior Horticulturist*.
 T. D. Raphael, B.A., *Horticulturist*.

NEW ZEALAND.

DEPARTMENT OF AGRICULTURE.

1. *Veterinary Laboratory, Wallaceville, Wellington* :—
 C. S. M. Hopkirk, B.V.Sc. (in charge).
 D. A. Gill, M.R.C.V.S., D.V.S.M.
 A. E. Kidd, *Bacteriological Assistant*.
 G. A. V. Morgan, N.D.A., N.D.D., *Dairy Bacteriologist*.

Field Staff :—

- C. V. Dayus, M.R.C.V.S., Hamilton.
 W. M. Webster, M.R.C.V.S., B.Sc., Hawera.

2. *Chemical Laboratory, Wellington* :—

- B. C. Aston, F.I.C., F.C.S., F.N.Z.I. (in charge).
 F. T. Leighton, *Analyst*.
 R. E. R. Grimmett, M.Sc., *Analyst*.
 F. J. A. Brogan, M.Sc., *Analyst*.
 I. J. Cunningham, B.Sc., *Analyst*.
 D. F. Waters, B.Sc., *Analyst*.

3. *Biological Laboratory and Plant Research Station, Palmerston North* :—

- A. H. Cockayne, *Director*.
 G. H. Cunningham, Ph.D., *Mycologist*.
 J. C. Neill, B.Sc., A.O.S.M., *Field Mycologist*.
 W. D. Reid, *Pathologist*.
 J. G. Gibbs, B.Ag., *Assistant Pathologist*.
 R. Brien, *Assistant Mycologist*.
 J. W. Hadfield, N.D.A., *Agronomist*.
 J. H. Claridge, *Assistant Agronomist*.
 E. Bruce Levy, *Agrostologist*.
 E. A. Madden, *Assistant Agrostologist*.
 A. W. Hudson, B.Ag., B.Sc., *Field Experimentalist*.
 A. Y. Montgomery, B.Ag., *Assistant Crop Experimentalist*.
 N. R. Foy, *Seed Specialist*.
 J. Muggeridge, *Entomologist*.
 W. Cottier, B.Sc., *Assistant Entomologist*.

4. *Dairy Research Institute, Palmerston North* :—

- G. M. Valentine, *Factory Superintendent*.

5. *Farm Economics Section, Wellington* :—

- E. J. Fawcett, M.A., *Farm Economist*.
 W. N. Paton, *Assistant Farm Economist*.

Farm Economy :—

- I. W. Weston, Ph.D.

CAWTHON INSTITUTE, NELSON.

- T. H. Easterfield, M.A., Ph.D., F.I.C., *Director.*
 E. Chittenden, *Assistant Orchard Chemist.*
 J. A. Bruce, *First Assistant Agricultural Chemist.*
 L. Bishop, *Second Assistant Agricultural Chemist.*
 H. O. Askew, M.A., Ph.D., D.I.C., A.I.C., *Pastures Research Chemist.*
 B. W. Doak, M.Sc., *Assistant Pastures Research Chemist.*
 L. Hodgson, *Cadet, Chemistry Department.*
 David Miller, Ph.D., *Chief Entomologist.*
 E. S. Gourlay, *First Assistant Entomologist.*
 A. Tonnoir, *Field Entomologist.*
 A. Philpott, F.E.S., *Hon. Research Student in Lepidoptera.*
 Averil M. Lysaght, B.Sc., N.Z. *Fruit Federation Entomologist.*
 A. F. Clark, A.C.F.S., *Forest Entomologist.*
 P. W. Mayson, *Second Assistant Entomologist.*
 E. Newman, *Cadet, Entomological Department.*
 T. Rigg, M.A., M.Sc., F.I.C., *Agricultural Chemist.*
 L. W. Tiller, B.Sc., *Orchard Chemist.*
 K. M. Curtis, M.A., D.Sc., *Chief Mycologist.*
 Beryl I. Parlana, M.A., *Assistant Mycologist.*

MASSEY AGRICULTURAL COLLEGE.

- G. S. Peren, B.S.A.: soils, pastures and crops.
 S. A. Asdell, M.A., Ph.D.: physiological chemistry and animal nutrition.
 F. W. Dry, B.Sc., D.Sc.: economic entomology and wool.
 J. M. McLinden, M.R.C.V.S., N.D.A.: veterinary science and animal husbandry.
 R. Waters: agricultural bacteriology.
 D. O. Williams, M.A.: agricultural economics.
 J. S. Yeates, M.Sc., Ph.D.: agricultural botany and plant breeding.
 F. L. C. Scrivener, B.Ag.Sc.: soil chemistry.
 W. A. Jacques, B.Sc., N.D.A.: pastures and crops.

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH.

1. *Dairy Research Institute, Palmerston North* :—
 W. Riddett, B.Sc., N.D.A., N.D.D., *Director.*
 F. H. McDowall, D.Sc., *Chemist.*
 H. R. Whitehead, *Bacteriologist.*
 B. L. Elphick, B.Sc., *Dairy Assistant.*
2. *Plant Research Station, Palmerston North, in conjunction with Department of Agriculture* :—
 Dr. H. H. Allan, M.A., D.Sc., F.L.S., *Systematic Botanist.*
 B. W. Doak, M.Sc., *Assistant Chemist.*

CANTERBURY AGRICULTURAL COLLEGE, LINCOLN. *

- F. W. Hilgendorf, M.A., D.Sc., F.N.Z.I., W. G. Calder, B.Ag.,
M.Sc. : crops, grasses, plant breeding.
M. J. Scott, B.A. (Cantab), B.Sc., A.I.C., D. J. Sidney, B.Ag.,
H.D.D. : soils and manures; animal nutrition.
R. B. H. Murray, M.R.C.V.S., D.V.S.M. animal pathology.
G. A. Holmes, M.Sc., B.Ag., A. H. Flay, B.Sc., B.Ag., C. E.
Iverson, B.Ag. agricultural economics.

DAIRY LABORATORY, HAWERA.

P. O. Veale, M.Sc., B.A., *Director.*

DAIRY LABORATORY, HAMILTON.

E. W. Hughes, B.Ag., A.A.C.I., *Bacteriologist.*
W. H. Udy, B.Sc., A.I.C., *Chemist.*

UNION OF SOUTH AFRICA

UNIVERSITY OF STELLENBOSCH.

Stellenbosch-Elsenberg College of Agriculture :—

- I. de V. Malherbe, B.A., Ph.D., D. T. Cuthbert, B.Sc., A.M.
Skibbe, M.Sc., M. S. du Toit, B.A., Ph.D., W. S. Myburgh,
M.Sc., M. H. Slabber, M.Sc. (Agric.) grain, manurial and
nitrogen deficiency experiments, rock phosphate experiments,
humus and nitrate balance of soils of winter rainfall
area, pot experiments on availability of nitrogen and
phosphate, laboratory investigations on fertilisers.
J. F. W. Grosskopf, M.A., Jnr. Dr. : co-operative marketing,
farm surveys farm bookkeeping.
M. C. Burt, B.A. : farm drainage, disposal of farm sewage.
J. H. W. T. Reimers, Landb. Ing., J. C. Swart, M.Sc., Agric.,
B. J. Smit, B.A., Ph.D., C. C. Rhodes, G. W. Johnston :
cross breeding with sheep, feeding of calves, pigs and sheep,
digestibility of cattle foods.
C. K. Brain, M.A., D.Sc., C. W. Mally, D.Sc., J. T. Potgieter,
M.Sc., Ph.D. : mass production of insect parasites, insecti-
cides, insect attractants and repellants, local investigations
of the chief pests of fruit growers.
J. H. Neethling, M.Sc., J. S. Marais, B.A., Ph.D., D. G. Haylett,
B.A., Ph.D., J. T. R. Sim, M.Sc., P. J. R. de Villiers,
B.Sc., Agric. : breeding of cereals, varietal resistance to
smut and rust, rotation and manurial experiments, soiling,
grazing and hay crops for winter rainfall area, milling and
baking tests of wheat, malting tests for barley.
Miss I. M. v. d. Merwe, B.Sc. : home economics.
O. S. H. Reinecke, B.S.A., M. W. Black, B.Sc., Agric., A. F.
de Wet, B.Sc., Agric. : variety studies of apples and pears,
pollination, pruning, date and olive culture.

- P. A. van der Byl, M.A., D.Sc., L. Verwoerd, M.Sc., Agric. :
 rusts and smuts of cereals, crown gall, wildfire in tobacco,
 etc.
 B. S. Parkin, B.A., M.R.C.V.S. : veterinary science.
 C. J. Theron, M.Sc., Agric., C. J. G. Niehaus, B.Sc., Agric
 viticulture.

TRANSVAAL UNIVERSITY COLLEGE, PRETORIA.

Faculty of Agriculture :—

- Prof. H. Clark Powell, B.Sc. : citriculture, pruning of deciduous trees.
 Prof. H. B. Davel, B.Sc. : dairying.
 Prof. J. C. Faure, M.A., B.Sc. : thrips.
 Prof. H. D. Leppan, B.Sc. : manurial, cropping, crop improvement, weed control, seed treatment and irrigation.
 Prof. J. C. Ross, B.A., M.Sc., Ph.D. : animal nutrition, including iodine research.
 Prof. A. M. Bosman, B.Sc. : animal husbandry and marketing.
 Prof. J. M. Hector, B.Sc. : maize and sorghum, physiological studies, botany of field plants.
 Prof. M. W. Henning, M.R.C.V.S. : pig diseases, arsenical dips.
 L. P. van Wyk, B.Sc. Agr. : iodine research.
 A. R. Pullen, A. J. van Tonder, B.A., M.Sc., A.C.G.I. : irrigation.
 M. van den Hoek, B.Sc. Agr. : citrus.

DEPARTMENT OF AGRICULTURE.

(a) *School of Agriculture, Potchefstroom :—*

- D. B. D. Moses, M.Sc. : crop and manurial experiments.
 W. S. H. Cleghorne, D.Sc., M.I.Mech.E. : dynamometer tests, irrigation of lucerne.
 J. J. Theron, B.Sc. (Agric), Ph.D. : manurial and crop rotation investigations, sugar beet experiments.
 R. O. Wahl, B.A. : maize stalk borer control, stored grain insects and eelworm investigations.
 M. J. van der Spuy, B.Sc. (Agric.), Ph.D. : manurial experiments.
 H. B. Terry, Cert. R.H.S. : fertilising fruit trees.
 D. Deenik, D.R.L.S. (Wageningen) : solids not fat in milk investigation.
 T. A. du Toit : growth of wool, crossing and feeding for mutton investigation.
 O. W. T. H. W. Schultz, Dip. Landw. : sugar beet investigations.
 E. K. Hall, B.Sc., M.Sc. (Agric.) : feeding and grading for beef, feeding pigs, cost of milk production.

(b) *School of Agriculture, Cedara :—*

- M. Edelman, C.D.A. (Edin.) : maize, potatoes.
 W. S. Hall : legumes and fertilisers.
 T. B. Cross : poultry experiments.

- G. W. Terry : root stocks for fruit trees.
 L. B. Ripley, M.Sc., Ph.D. : cut worms, fruit fly, maize stalk-borer.
 R. R. Staples, M.A. (Cantab.) veld pasture and wattle investigations.
 C. O. Williams, B.Sc. : tanning materials, fertilisers.
 C. M. v. d. Riet, M.Sc. : dairying.
 P. B. Aird : silos.
 A. J. Taylor, M.Sc. : composition of fodder plants.

(c) *Grootfontein School of Agriculture, Middelburg* :—

- D. W. McKellar, B.Sc.Agr. crops.
 K. Meldal-Johnsen : crops and irrigation.
 J. G. Marais, B.Sc.Agr. : crops and irrigation.
 A. Marais, M.Sc. : plant analysis, manuring.
 F. N. Battenhausen, Ph.D. : movement of soil moisture, brak analysis.
 J. C. Fick, Ph.D. : manuring and plant analysis.
 B. Smit, M.Sc. Agr. : sheep blow flies, cactus insects.
 G. A. Gill M.A. : veld plants, plant pathology.
 E. L. P. Thomas, Dip. R.H.S. fruit, vegetable culture and varieties.
 L. A. Moseley, B.S.A. milk investigation for solid not fat.

(d) *School of Agriculture, Glen* :—

- T. D. Hall, B.A., M.Sc. (Agric.), and A. A. Cornell, B.A. : soils and fertilisers.
 P. Toens, M.Sc. : cream and butter experiments.
 A. J. Mackenzie : crops, manuring, seed stimulation.
 I. J. Smuts, B.Sc. (Agric.) : crops, rotation and tillage.
 L. J. Coles, B.D.F.D. : solids not fat in milk.
 E. G. L. Smith : tree propagation.
 A. R. v. d. Merwe : wool growing and cross breeding for mutton.
 H. C. Storm, B.A., Ph.D., A.I.C. soils and fertilisers.
 J. J. Morris, B.Sc. : veld management.
 C. A. Pereira : crossbreeding for table birds.
 C. du Plessis, M.Sc. vermin extermination and eelworm control.
 J. J. Hiemstra, Dip. R.L.W.S., Dip. M.L. : crossbreeding and feeding for bacon production, grading of cattle.

(e) *Division of Botany, Horticulture and Entomology* :—

- I. B. Pole-Evans, C.M.G., M.A., D.Sc., F.L.S. botanical survey, phytopathological research, low temperature research.
 Miss E. M. Doidge, M.A., D.Sc., F.L.S. : bacterial diseases of plants, citrus diseases, systematic mycology.
 E. S. Moore, B.Sc., Ph.D. : tobacco and cotton diseases.

- Miss A. M. Bottemley, B.A.: pineapple diseases, systematic mycology.
- E. P. Phillips, M.A., D.Sc., F.L.S.: systematic botany.
- Miss S. M. Stent: indigenous and exotic grasses, systematic botany.
- C. A. Smith, B.Sc.: systematic botany, veld problems.
- A. P. D. McClean, M.Sc.: virus diseases of plants.
- C. D. B. Liebenberg, B.Sc.: systematic botany, veld improvement.
- E. A. Griffiths: low temperature, storage of fruit.
- R. A. Dyer, M.Sc.: systematic botany and ecology.
- V. A. Wager, M.Sc.: wilt diseases of plants.
- Miss M. Henrici, Ph.D.: plant physiology.
- A. O. D. Mogg, M.A. (Cantab.): systematic botany.
- T. J. Naude, M.Sc., Ph.D.: locust research, cyanide fumigation investigations, termite control, *cicadellidae* (systematic).
- F. W. Pettey, Ph.D.: codling moth control by spraying and parasites, removal of arsenic from fruit, effect of cold storage on fruit fly larvae in fruit.
- H. K. Munro, B.Sc., F.E.S.: official collection work, *trypetidae* (systematic).
- C. J. Joubert, M.Sc.: citrus insects investigations, thrips, mealy-bug, false codling moth.
- A. J. Smith, B.Sc.: cotton insects, root gallworm, citrus insects.
- F. Taylor, B.A.: housefly control.
- G. A. Hepburn, B.Sc.: fruit fly studies.
- M. C. Mossop, M.Sc.: eucalyptus snoutbeetle control.
- F. G. Anderrsen, B.Sc., Ph.D.: sulphur dioxide in dried fruit, chlorosis in fruit trees.
- F. L. Perkins: fruit drying.
- L. H. Clark, B.Sc.: citrus variety tests, pineapple selection.
- B. Hahne, M.Sc., Ph.D.: microchemistry of food reserves in fruit trees, dehydration, horticultural survey.
- F. Y. de Villiers, D.Sc., Ph.D.: citrus bye-products, plant physiology.
- J. S. Taylor: cotton insects.
- G. C. Haines, M.Sc.: cotton insects, minor investigations.
- F. G. C. Tooke, M.Sc.: forest insect investigations.
- J. L. Papert: tsetse fly control.
- D. Gunn: false codling moth, fruit sucking moths, minor investigations.

(f) *Division of Chemistry* :—

- St. C. O. Sinclair, M.A., D.Sc., F.I.C.: general agricultural research.
- B. de C. Marchand, D.Sc., J. P. van Zyl, B.A., Ph.D.: soils.
- A. Stead, M.Sc., F.I.C.: in charge of soil survey, soils and soil alkali investigations.

C. R. van der Merwe, B.A., M.Sc., J. V. Cutler, M.Sc., D. C. Crawford, B.Sc.Agr., M.Sc. : soil survey.

B. J. Smit, B.A. : fertilisers.

P. R. v. d. R. Copeman, B.A., D.Sc. : fruit investigations.

(g) *Division of Field and Animal Husbandry* :—

A. E. Romyn, M.Sc., Ph.D., F. A. O. Wande, B.Sc., F. N. Bonsma, B.Sc. : animal husbandry.

L. J. Henning, M.Sc., P. J. Naude, M.Sc. tobacco and cotton.

F. M. du Toit, M.Sc. : legumes.

G. F. Fevrier, B.A. : diseases of wines, fermentation.

F. C. Smith : prickly pear feeding experiments.

C. A. Murray, B.Sc. : animal husbandry.

I. V. Bosman, M.Sc. : wool research.

E. van Manen, M.S.A. : poultry.

H. L. Neethling, M.Sc. : dairying.

A. R. Saunders, M.Sc., M. G. Stahl, M.A., M.Sc., D. J. v. d. Berg, M.Sc. : field husbandry, maize and summer cereals.

H. W. Turpin, M.Sc., Ph.D. field husbandry, maize and summer cereals, irrigation.

J. L. Moerdyk, B.Sc., C. F. van Rooyen, M.Sc. : tobacco, cotton, coffee.

E. Baker : fibre research, hops and flax.

S. R. de Villiers, M.Sc. : tobacco, cotton.

F. H. Bosman, M.Sc. : field husbandry.

P. P. du Toit, B.Sc. : viticulture.

G. S. Marr, B.Sc. : sheep and wool research.

(h) *Division of Economics and Markets* :—

A. A. Smit, B.Sc., M.Sc. (Agric.) : cost of production.

J. I. Raats, M.A. : marketing of agricultural produce (milk).

E. W. Sampson, B.A., N.D.D., D.A., D.A. (Econ.) : cost of production of agricultural produce (dairy).

O. Owen-John, F.B.S.A. : cost of production and marketing of poultry products.

C. J. Uys, M.Sc. : cost of production of agricultural produce (maize, meat).

S. P. van Wyk, M.A. marketing (general).

C. H. Spamer, B.A. : cost of production and marketing of poultry produce.

J. R. McLoughlin, M.Sc. marketing of agricultural produce (milk).

M. van den Hoek, B.Sc. : cost of production and marketing of agricultural produce (citrus).

S. J. de Swardt, B.A. : farm management surveys (land settlements).

W. J. Pretorius, M.Sc. : farm management surveys, cost of production (citrus).

J. S. P. Naude, M.Sc. : farm management surveys (land settlements, system of farming, North Transvaal).

(i) Division of Veterinary Services:—

- P. J. du Toit, B.A., Ph.D., Dr. Med. Vet.: protozoal diseases (e.g., East Coast fever, redwater, gallsickness), virus diseases (e.g., horsesickness, heartwater).
- P. R. Viljoen, M.R.C.V.S., Dr. Med. Vet.: control of infectious diseases.
- D. T. Mitchell, M.R.C.V.S.: diseases of fowls (e.g., fowl typhoid, diphtheria).
- H. H. Green, D.Sc.: biochemical problems, especially mineral deficiencies.
- G. v. d. W. de Kock, M.R.C.V.S., Dr. Med. Vet.: pathological problems, especially affecting blood and blood forming organs and jaagsiekte in sheep.
- J. B. Quinlan, M.R.C.V.S., Dr. Med. Vet.: sterility.
- C. P. Nester, B.A., M.R.C.V.S., D.Sc.: acute liver atrophy of equines and bloodpens (lamb dysentery).
- E. M. Robinson, M.R.C.V.S., Dr. Med. Vet.: bacteriological problems relating to diseases of stock and serological investigations.
- H. H. Curson, M.R.C.V.S., Dr. Med. Vet.: histological and embryological problems.
- P. J. J. Fourie, M.R.C.V.S.: haematology and pathology of certain parasitic diseases (e.g., haemonchosis and oesophagostomosis in sheep).
- G. A. H. Bedford, F.E.S.: entomological problems relating to diseases in stock.
- J. R. Scheuber, Dr. Med. Vet.: study of certain types of anaerobes and researches affecting the preparation of Black Quarter vaccine.
- D. G. Steyn, B.Sc., Dr. Med. Vet.: study of plants poisonous to stock.
- G. Martinaglia, M.Sc., V.S., B.V.Sc.: bacteriological problems, especially in relation to poultry diseases.
- H. O. Monnig, B.A., Ph.D., B.V.Sc.: helminthological problems (nematodes, etc.).
- P. L. le Roux, B.Sc., M.R.C.V.S.: helminthological problems (trematodes, etc.).
- J. I. Quin, B.V.Sc.: physiological problems especially in relation to some plants poisonous to stock.
- W. J. B. Green, B.V.Sc.: study of certain types of anaerobes.
- J. H. R. Bisschop, B.V.Sc., B.Sc. (Agric.): influence of mineral deficiency on cattle breeding.
- H. Graf, B.V.Sc., B.Sc.: biochemical problems.
- I. P. Marais, B.V.Sc., B.Sc. (Agric.): bacteriological studies in relation to contagious abortion and bloodpens (lamb dysentery).
- J. G. Bekker, B.V.Sc., B.Sc. (Agric.): bacteriological studies in relation to the preparation of anthrax vaccine.

- R. A. Alexander, B.V.Sc., B.Sc. (Agric.): poultry diseases.
 A. D. Thomas, B.V.Sc.: neoplasms in stock and the pathology
 of certain diseases of fowls.
 J. D. W. A. Coles, B.V.Sc.: ophthalmia in bovines.
 R. M. du Toit, B.V.Sc.: certain phases of protozoal diseases.

IRISH FREE STATE.

DEPARTMENT OF AGRICULTURE.

- J. H. Hinchcliff, Ph.D., *Agricultural Director.*
 D. Twomey, A.R.C.Sc., I. *Chief Live Stock Officer.*
 T. O'Connell, F.R.C.Sc.I.: agricultural education and research.
 A. P. Wilson: dairying industry.
 Miss M. Hennerty, N.D.P., *Chief Poultry Officer.*
 H. A. Lafferty, F.R.C.Sc.I.: seed testing and economic botany.
 J. H. Norris, M.R.C.V.S.: veterinary research.
 W. D. Davidson, B.A., B.Sc., A.R.C.Sc.I., N.D.A.: potato
 growing.
 J. C. Chalonor, B.Agr.: barley growing.
 G. N. Keller: sugar beet growing.
 J. Dempsey, A.R.C.Sc.I.: general agricultural research.
 J. M. Adams, F.R.C.Sc.I., N.D.A.: farm costings.
 J. Kearns, *Costings Officer.*
 A. C. Forbes: *Director of Forestry.*

Butter Testing Station :—

- P. S. Arup, M.Sc., F.I.C.: dairy chemistry and dairy analytical
 methods.

Agricultural Stations :—

- Athenry* :—J. J. Hassett, A.R.C.Sc.I., *Manager.*
Ballyhaise :—D. Delany, A.R.C.Sc.I., *Manager.*
 R. Collins, F.R.C.Sc.I., *Assistant.*
Clonakilty :—J. Lucey, A.R.C.Sc.I., *Manager.*
 P. Conroy, A.R.C.Sc.I., B.Agr.Sc., *Assistant.*

Munster Dairy Institute, Cork :—

- Miss A. M. Doyle, *Head of Dairying Division.*
 Miss K. Noonan, *Head of Poultry Division.*

VETERINARY COLLEGE OF IRELAND, DUBLIN.

- Prof. J. F. Craig, M.A., M.R.C.V.S., *Principal.*
 Prof. J. J. O'Connor, M.R.C.V.S. *surgery.*
 Prof. T. G. Browne, M.R.C.V.S.: *anatomy.*
 Prof. G. T. Dunne, F.R.C.V.S.: *materia medica and hygiene.*
 Prof. J. S. Johnston: *physiology.*

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UNIVERSITY COLLEGE, DUBLIN.

- Prof. J. P. Drew, M.Sc., A.R.C.Sc.I. : general agriculture.
Prof. P. A. Murphy, D.Sc., A.R.C.Sc.I. : plant pathology.
Prof. A. Henry, M.A., F.L.S. : forestry.
G. Stephenson : agricultural chemistry.
M. J. Gorman, B.Sc., A.R.C.Sc.I. : agricultural botany.
M. Caffrey, A.R.C.Sc.I. : plant breeding.
G. O. Sherrard, A.R.C.Sc.I. : horticulture.
E. J. Sheehy, B.Sc., F.R.C.Sc.I. : animal nutrition.

UNIVERSITY COLLEGE, CORK.

- Prof. C. Boyle, M.A., B.Sc., Ph.D. : dairy husbandry.
M. Grimes, M.Sc., Ph.D. : dairy bacteriology.
J. Lyons, A.R.C.Sc.I., N.D.A., N.D.D. : dairy technology.
G. T. Pyne, M.Sc., A.R.C.Sc.I., F.I.C. : dairy chemistry.

INDIA.

IMPERIAL.

IMPERIAL AGRICULTURAL RESEARCH INSTITUTE AND COLLEGE, PUSA :—

- D. Clouston, C.I.E., M.A., D.Sc., *Agricultural Adviser to the Government of India and Director Agricultural Research Institute, Pusa.*
W. H. Harrison, D.Sc., *Imperial Agricultural Chemist.*
G. S. Henderson, N.D.A., N.D.D., *Imperial Agriculturist.*
W. McRae, M.A., D.Sc., F.L.S., *Imperial Mycologist.*
F. J. F. Shaw, D.Sc., A.R.C.S., F.L.S., *Imperial Economic Botanist.*
F. Bainbrigge Fletcher, R.N., F.E.S., F.Z.S., F.L.S., *Imperial Entomologist.*
J. H. Walton, M.A. (Cantab.), M.Sc., *Imperial Agricultural Bacteriologist.*
P. V. Isaac, B.A., M.Sc., D.I.C., F.E.S., *Second Entomologist (Dipterist).*
M. Wynne Sayer, B.A., *Secretary, Sugar Bureau.*
A. N. Puri, M.Sc., Ph.D., *Physical Chemist.*

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IMPERIAL INSTITUTE OF AGRICULTURE, HUSBANDRY AND DAIRYING, WELLINGTON.

IMPERIAL CATTLE BREEDING FARM, KARNAL.

IMPERIAL DAIRY FACTORY, ANAND :—

- W. Smith, *Imperial Dairy Expert.*
F. J. Warth, M.Sc., *Physiological Chemist : animal nutrition.*
Z. R. Kothawala, B.A., B.Sc., *Assistant to Imperial Dairy Expert.*

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Rao Bahadur T. S. Venkataraman, B.A., *Sugar Cane Expert,*
Nand Lal Dutt, M.Sc., *2nd Cane Breeding Officer.*

IMPERIAL INSTITUTE OF VETERINARY RESEARCH, MUKTESAR :—

J. T. Edwards, B.Sc., M.R.C.V.S., *Director.*
J. R. Haddow, B.Sc., M.R.C.V.S., *Veterinary Research Officer.*
H. Cooper, M.R.C.V.S., *Pathologist.*

INDIAN CENTRAL COTTON COMMITTEE :—

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J. H. Ritchie, M.A., B.Sc., I.A.S., *Secretary.*
W. J. Jenkins, M.A., B.Sc., I.A.S., *Deputy Secretary.*
A. James Turner, M.A., B.Sc., *Director Technological Research Laboratory, Bombay.*
R. P. Richardson, *Spinning Master, Spinning Laboratory, Matunga.*

INSTITUTE OF PLANT INDUSTRY, INDORE.

A. Howard, C.I.E., M.A., *Director.*
Mrs. G. L. C. Howard, M.A., *Physiological Botanist.*

Bombay Research Schemes :—

K. V. Joshi, M.Ag., *Botanist.*
G. S. Kulkarni, M.Ag., *Cotton Mycologist.*
R. S. Kasargode, L.Ag., *Cotton Entomologist.*

Sind Research Scheme :—

B. M. Debrai, M.Sc., *Cotton Physiologist, Sakrand.*

Central Provinces Research Scheme :—

D. N. Mahta, B.A., F.L.S., *Second Economic Botanist.*

Madras Herbaceum Scheme :—

R. Chockalingam Pillai, L.Ag., *Herbaceum Cotton Investigator.*

Punjab Research Scheme :—

Trevor Trought, M.A., *Cotton Research Botanist.*

BENGAL.

HEADQUARTERS STATION, DEPARTMENT OF AGRICULTURE, DACCA :—

R. S. Finlow, B.Sc., F.I.C., *Director of Agriculture.*
G. P. Hector, M.A., D.Sc., *Economic Botanist.*
M. Carbery, M.A., B.Sc., *Agricultural Chemist.*
K. McLean, B.Sc., *Fibre Expert.*
Dwijadas Dutta, B.Sc., *2nd Economic Botanist.*
A. D. MacGregor, M.R.C.V.S., I.V.S., *Principal, Bengal Veterinary College.*
F. J. Gossip, *Livestock Expert to the Government of Bengal.*

MADRAS.

DEPARTMENT OF AGRICULTURE :—

- R. D. Anstead, C.I.E., M.A., *Director of Agriculture*.
 A. C. Edmonds, B.A., Dip.Ag., *Deputy Director of Agriculture* : sugar cane and paddy.
 B. Ramayya, B.Sc., *Officiating Deputy Director of Agriculture* : cotton.
 P. H. Rama Reddi, M.A., B.Sc., *Deputy Director of Agriculture* : cotton and cholam.
 D. Ananda Rao, B.Sc., *Deputy Director of Agriculture* : paddy, groundnut, sugarcane.
 M. Govinda Kidavu, Dip.Ag., *Deputy Director of Agriculture* : pepper and coconut.
 R. W. B. Littlewood, N.D.A., *Deputy Director of Agriculture* : livestock, cattle breeding.
 F. H. Butcher, *Curator, Botanical Gardens* : potato, horticulture.

AGRICULTURAL RESEARCH INSTITUTE, COIMBATORE :—

- G. R. Hilson, B.Sc., *Cotton Specialist*.
 S. Sundraraman, M.A., *Mycologist*.
 G. N. Rangaswami Ayyangar, B.A., *Millet Specialist*.
 R. O. Iliffe, M.A., Agric.Dip., *Paddy specialist*.
 Rao Sahib Y. Ramachandra Rao, M.A., *Entomologist*.
 B. Viswanath, F.I.C., F.C.S., *Agricultural Chemist*.
 C. Tudalinga Mudaliyar, F.L.S., *Systematic Botanist*.
 Paul D. Karunakar, M.Sc., *Agricultural Bacteriologist*.

BOMBAY.

AGRICULTURAL COLLEGE, POONA :—

- W. Burns, D.Sc., *Principal and Economic Botanist* : genetics of crops, ecology of grasslands.
 Rao Bahadur P. C. Patil, M.Sc., L.Ag., *Professor of Agricultural Economics* : cost of production of various crops.
 Rao Bahadur D. L. Sahasrabudhe, *Agricultural Chemist* : fertilisers.
 W. M. Schutte, A.M.I.Mech., *Agricultural Engineer* : improvement of local implements.
 E. J. Bruen, *Livestock Expert* : cattle breeding.
 B. S. Patel, N.D.D., C.D., A.D., *Professor of Agriculture* : agriculture and dairy problems.
 G. S. Cheema, D.Sc., *Horticulturist* : fruit cultivation, transport and canning.
 J. P. Trivedi, L.C.E., A.M.I.E., *Professor of Agricultural Engineering* : physics of soil working implements.
 Dr. B. N. Uppal, *Plant Pathologist* : fungus diseases.
 T. N. Jhaveri, L.Ag., *Assistant Professor of Entomology* : applied entomology, especially crop pests.
 S. G. Bhaleras, B.Ag., *Crop Botanist* : genetics of rice and wheat.

B. B. Joshi, G.B.V.C., *Lecturer in Veterinary Science : methods of veterinary treatment, parasites.*

EXPERIMENT STATION, SAKRAND, SIND :—

V. A. Tamhane, M.Ag., M.Sc., *Soil Physicist and Agricultural Chemist : soil problems.*

K. I. Thadani, M.Sc., B.Ag., *Botanist : genetics of cotton and rice.*

DEPARTMENT OF AGRICULTURE, BOMBAY PRESIDENCY :—

F. T. Main, O.B.E., B.Sc., *Director of Agriculture : administrative officer.*

V. G. Gokhale, L.Ag., *Deputy Director of Agriculture.*

Rao Sahib Bhimbhai M. Desai, *Deputy Director of Agriculture.*

S. S. Salimath, B.Ag., *Deputy Director of Agriculture.*

N. V. Kanitkar, M.Ag., B.Sc., *Soil Physicist : dry farming.*

M. L. Patel, M.Ag., *Cotton Breeder : genetics of cotton, tobacco, sorghum.*

S. H. Prayag, M.Ag., *Cotton Breeder : genetics of cotton, groundnut and millets.*

G. L. Kottur, B.Ag., *Cotton Breeder : genetics of cotton and sorghum.*

D. P. Mankad, B.Ag., *Cotton Breeder : genetics of cotton.*

B. B. Desai, B.Ag., *Cotton Breeder : genetics of cotton.*

UNITED PROVINCES.

**AGRICULTURAL COLLEGE AND RESEARCH LABORATORIES, CAWN-
PORE :—**

R. L. Sethi, M.A., B.Sc. : rice.

T. S. Sabnis : fibre crops, oil seeds, millets (Jowar and Bajra).

R. Prasad : cotton.

P. B. Richards, A.R.C.S., F.E.S. : cotton pests.

H. N. Sharma, B.S. : cotton pests.

H. D. Nangpal : cotton pests.

P. K. Dey, M.Sc. : fungus diseases of potatoes, the production of rust resistant varieties of linseed, wilt of cotton.

H. N. Batham : soils.

SUGARCANE RESEARCH STATION, SHAHJAHANPUR :—

G. Clarke, C.I.E., F.I.C., F.C.S.

Khan Sahib Muhammad Naib Husain.

Rai Sahib S. C. Banerjee.

PUNJAB.

D. Milne, C.I.E., B.Sc., Agric., I.A.S., *Director of Agriculture.*

AGRICULTURAL COLLEGE AND RESEARCH INSTITUTE, LYALLPUR :—

T. A. Miller Brownlie, C.E., M.I.W.E., M.I.M. & C.E., *Principal, Punjab Agricultural College and Agricultural Engineer to Government of Punjab.*

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- D. P. Johnston, A.R.C.Sc.I., N.D.A., I.A.S., *Professor of Agriculture.*
 S. Labh Singh, L.Ag., B.Sc. (Agric.), *Associate Professor of Agriculture.*
 R. S. Jai Chand Luthra, M.Sc., D.I.C. (Lond.), F.R.H.S., I.A.S., *Associate Professor of Botany.*
 S. Lal Singh, B.Sc. (Hons.), M.Sc. (Calif.), *First Fruit Specialist to Government, Punjab.*
 S. D. Loomba, B.Sc. (Ore.), M.Bac. (Chicago), *Second Fruit Specialist to Government, Punjab.*
 Ram Dhan Singh, L.Ag., B.Sc., Dip.Ag., M.A. (Cantab.), *Cerealist to Government, Punjab.*
 Hans Raj Saini, M.Sc. (Punjab), B.Sc. (Edin.), *Fodder Specialist to Government, Punjab.*
 B. S. Sawhney, B.A. (Cantab.), *Botanist for Millets to Government, Punjab.*
 S. Ram Singh Sarkaria, B.Sc. (Agric.), *Bacteriologist to Government, Punjab.*
 T. Trought, M.A., *Cotton Research Botanist.*
 P. E. Lander, M.A. (Cantab.), D.Sc. (Lond.), A.I.C., I.A.S., *Agricultural Chemist to Government, Punjab.*
 Dalip Singh, M.Sc., Ph.D. (Cantab.), *Second Agricultural Chemist to Government, Punjab.*
 M. Afzal Hussain, M.Sc., M.A. (Cantab.), I.A.S., *Entomologist to Government, Punjab.*
 M. Mahboob Ilahi, C.E., A.M.I.W.E., M.R.S.I., *Second Agricultural Engineer to Government, Punjab.*
 T. W. R. Easton, *Executive Engineer : lift irrigation.*
 J. C. Campbell, *Rock-drilling Engineer.*
 F. B. Harrop, *Poultry Expert to Government, Punjab.*
 R. Branford, M.R.C.V.S., I.V.S., *Livestock Expert to Government, Punjab.*

VETERINARY COLLEGE, LAHORE :—

- W. Taylor, M.R.C.V.S., D.V.H., I.V.S., *Principal and Professor of Medicine.*
 U. W. F. Walker, M.C., M.R.C.V.S., I.V.S., *Professor of Surgery.*
 A. C. Aggarwala, B.Sc. (Hons.), M.R.C.V.S., *Professor of Hygiene.*
 J. F. Shirlaw, M.R.C.V.S., *Professor of Pathology.*
 Karam Ilahie, G.P.V.C., P.V.S., *Professor of Parasitology.*
 Hardit Singh, B.Sc., G.P.V.C., P.V.S., *Professor of Anatomy.*
 Haq Nawaz Khan, G.P.V.C., P.V.S., *Professor of Physiology.*
 Mool Singh, G.P.V.C., P.V.S., *Professor of Materia Medica.*

VETERINARY RESEARCH LABORATORY, SOHAWA :—

- Kahan Singh, P.V.S., *in Charge of the Duties of Camel Specialist.*

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BIHAR AND ORISSA.

SABOUR EXPERIMENTAL STATION AND LABORATORIES :—

- A. C. Dobbs, *Director of Agriculture.* B. C. Bent, M.B.E.,
B.Sc., I.A.S. (*Acting*).
- M. N. Ghosh, *Officiating Agricultural Chemist.*
- S. K. Basu, *Officiating Economic Botanist.*
- H. W. Stewart, *Officiating Agricultural Engineer.*

SEPAYA AGRICULTURAL STATION :—

- * A. P. Cliff, *Deputy Director of Agriculture.*

RANCHI AGRICULTURAL STATION :—

- C. A. MacLean, *Deputy Director of Agriculture.*

CUTTACK AGRICULTURAL STATION :—

- H. L. Dutt, *Deputy Director of Agriculture.*

GAYA AGRICULTURAL STATION :—

- D. R. Sethi, *Deputy Director of Agriculture.*

BURMA.

MANDALAY AGRICULTURAL COLLEGE :—

- J. Charlton, M.Sc., F.I.C., *Chemist* : soil surveys, cyanogenetic glucosides.
- D. Rhind, B.Sc., *Economic Botanist* : plant breeding (rice, seasmum, chillies and beans).
- H. F. Robertson, B.Sc., *Professor of Agriculture and Acting Mycologist* : rubber and miscellaneous plant diseases ; field experiments and dairying.
- C. C. Ghosh, B.A., *Entomologist* : sericulture, boll worm of cotton, miscellaneous pests.
- W. M. Clark, B.Sc. : field experiments, dairying.

HMAWBI AGRICULTURAL STATION :—

- D. Hendry, B.Sc. : improvement of rice varieties, horticulture.

MAHLAING AGRICULTURAL STATION :—

- U. Kydw Zdn, B.A., : cotton improvement, groundnuts, beans.

PADU AGRICULTURAL STATION :—

- T. D. Stock, B.Sc. : wheat, grain, beans.

ALLANMYO AGRICULTURAL STATION :—

- F. D. Odell, B.A. : cotton, sesamum, groundnut.

PYINMANA AGRICULTURAL STATION :—

- A. McLean, B.Sc. : sugarcane.

AKYAB AGRICULTURAL STATION :—

R. Watson, B.Sc. : rice.

IRRAWADDY AGRICULTURAL STATION :—

R. A. Beale : rice improvement and horticulture.

TENASSERIM AGRICULTURAL STATION :—

J. W. Grant, B.Sc. : rice, plantation crops, horticulture.

CENTRAL PROVINCES AND BERAR.**DEPARTMENT OF AGRICULTURE :—**

F. J. Plymen, A.C.G.I., *Director of Agriculture.*

R. G. Allan, M.A., *Principal, Agricultural College.*

S. T. D. Wallace, *Deputy Director of Animal Husbandry.*

W. Youngman, B.Sc., Ph.D., *Economic Botanist for Cotton.*

D. N. Mahta, B.A. (*temporary*), *Economic Botanist for other crops and horticulture.*

J. F. Dastur, M.Sc., D.I.C., *Mycologist.*

A. R. P. Iyer, B.A., *Officiating Agricultural Chemist.*

D. V. Bal, L.Ag., *Bacteriological Assistant.*

J. L. Khare, B.Sc., *Entomological Assistant.*

Northern Circle Experimental Farms :—

E. A. H. Churchill, *Officiating Deputy Director of Agriculture.*

Adhurtal, Jubbulpore : rice, wheat and sugar cane.

Powarkhera, Hashangabad : wheat.

Chhindwara : wheat, cotton and fruit.

Southern Circle, Experimental Farms :—

R. H. Hill, M.A., *Deputy Director of Agriculture.*

Tharsa : wheat and sugarcane.

Waraseani : rice and sugarcane.

Eastern Circle Experimental Farms :—

T. L. Powar, B.A., *Deputy Director of Agriculture.*

Labhandih, Raipur : rice.

Western Circle :—

S. G. Mutkekar, M.Sc., *Deputy Director of Agriculture, Amraoti.*

ASSAM.**GOVERNMENT LABORATORY, JORHAT :—**

J. N. Chakravarty, *Deputy Director of Agriculture.*

Dr. S. K. Mitra, *Economic Botanist.*

SOUTHERN RHODESIA.

DEPARTMENT OF AGRICULTURE, SALISBURY:—

- H. G. Mundy, Dip. Agric., F.L.S., *Chief Agriculturist*: agriculture (Government Farms and Stations, crops and horticulture).
- J. A. Walters, B.A., *Agriculturist*.
- A. D. Husband, A.I.C., *Chief Chemist*: agricultural chemistry.
- A. P. Taylor, M.A., B.Sc., R. McChlery, B.A., B.Sc., *Chemists*: agricultural chemistry.
- R. W. Jack, F.E.S., *Chief Entomologist*.
- J. K. Chorley, A. Cuthbertson, and J. I. Roberts, B.Sc., *Assistant Entomologists*.
- T. Hamilton, M.A., N.D.D., N.D.A., *Dairy Expert*: dairying.
- J. R. Corry, B.Sc., *Assistant Dairy Expert*: dairying.
- A. Little: *poultry husbandry*.
- J. C. Hopkins, B.Sc., *Mycologist*.
- C. L. Robertson, B.Sc., A.M.I.C.E.: agricultural and hydrographic engineering.

Veterinary Research Department:—

- L. E. W. Bevan, M.R.C.V.S., *Director*.
- D. A. Lawrence, B.V.Sc., *Research Officer*.

MALTA.

AGRICULTURAL DEPARTMENT, VALLETTA:—

- Professor J. Borg, M.A., M.D., *Superintendent of Agriculture*.
- P. Borg, *Plant Pathologist*.
- J. Briffa, M.B.E., *Superintendent of Public Gardens*.
- A. M. Macfarlane, M.R.C.V.S., *Government Veterinary Surgeon*.

BARBADOS.

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- C. C. Skeete, B.A., *Assistant Director*
- A. E. S. McIntosh, B.Sc., Ph.D., *Assistant Geneticist*.
- J. C. Nauen, *Horticulturist*.
- S. J. Saint, B.Sc., A.I.C., *Assistant Agricultural Chemist*.

BASUTOLAND.

- F. A. Verney, O.B.E., F.R.C.V.S., *Principal Veterinary Officer*.
- L. F. Wacher, *Agricultural Officer*.

BECHUANALAND.

- W. H. Chase, O.B.E., F.R.C.V.S., *Chief Veterinary Officer, Mafeking*.
- F. M. Hill, M.R.C.V.S., *Francistown*.

H. M. Webb, M.R.C.V.S., *Maun.*
 B. Holmes, M.R.C.V.S., *Rakops.*
 N. Viljoen, M.R.C.V.S., *Palabye Road.*
 W. Hay, M.R.C.V.S., *Lobatsi.*
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 E. L. Adams, *Inspector of Produce.*
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 Vacant (S. Bruce, D.V.M., *acting*), *Government Veterinary Surgeon.*
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 J. C. Hutson, B.A., Ph.D., *Entomologist.*
 A. W. R. Joachim, B.Sc., A.I.C., Dip. Agric. (Cantab.), *Agricultural Chemist.*
 L. Lord, M.A. (Oxon), *Economic Botanist.*
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 M. Park, A.R.C.S., *Assistant Mycologist.*
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 A. H. G. Alston, B.A., *Systematic Botanist.*

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N. K. Jardine, F.E.S., *Inspector, Central Division.*
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 C. N. E. J. de Mel, B.Sc., Dip. Agric., *Inspector, North Western Division.*

(Signature)

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T. H. Holland, Dip. Agric., Manager, Experiment Station, Peradeniya.

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M. Crawford, M.R.C.V.S., Assistant Government Veterinary Surgeon.

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R. A. Taylor, B.Sc., Physiological Botanist.
R. K. S. Murray, A.R.C.S., Mycologist.

In London.

G. Martin, B.Sc., A.I.C., F.I.R.I., Chemist.
W. S. Davey, B.Sc., A.I.C., F.I.R.I., Chemist.
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TEA RESEARCH INSTITUTE :—

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S. Stuart Light, B.Sc., Entomologist.
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R. J. Roe, M.R.C.V.S., Veterinary Surgeon.
H. M. Morris, M.Sc., Government Entomologist.
A. Haralambides, Chemist.
G. Barrett, Manager of Stock Farm.
P. Ch. Antoniades, I.A. (M.I.), C.M.A.(F.s.), Viticulturist and Wine Expert.

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A. J. Ashworth, Manager of the Government Experimental Farm at Anson, Port Louis, East Falkland.

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G. H. Corbett, *Government Entomologist.*

H. T. Pagden, *Assistant Entomologist.*

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W. N. C. Belgrave, *Plant Physiologist.*

B. J. Eaton, C.B.E. (seconded to Rubber Research Institute of Malaya), and R. O. Bishop (acting), *Agricultural Chemists.*

F. W. South, M.A., *Chief Field Officer.*

R. A. Altson, B.Sc., A.R.C.S., *Assistant Mycologist.*

THE RUBBER RESEARCH INSTITUTE OF MALAYA :—

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W. B. Haines, D.Sc., D.I.C., F.Inst.P., *Head of Soils Division.*

C. E. T. Mann, M.Sc., *Plant Physiologist.*

J. R. Weir, B.A., Ph.D., *Head of Pathological Division.*

A. R. Sanderson, F.L.S., *Plant Pathologist.*

A. Thompson and F. S. Ward, *Assistant Mycologists.*

C. D. V. Georg, V. R. Greenstreet and J. K. Dennett, *Assistant Chemists.*

H. Sutcliffe, A.R.C.S., *Plant Pathologist.*

E. Rhodes, M.Sc., Ph.D., *Biochemist.*

A. S. Corbet, B.Sc., Ph.D., A.I.C., *Soils Bacteriologist.*

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F. Billington, M.A., Dip. Ag., *Field Officer.*

N. C. Jenkins, M.A., Dip. Ag., *Field Officer.*

F. Beeley, B.Sc., *Field Officer.*

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H. Gunnery, *Technician.*

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K. N. Kaimal, B.A., *Assistant Botanist.*

FIJI:

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Hubert W. Simmonds, *Government Entomologist.*

J. G. C. Campbell, B.Sc., *Government Mycologist.*

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B. L. Field, A.M.I.E., *Cotton Inspector.*

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Staff of Coconut Committee :—

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T. H. C. Taylor, B.Sc., *Assistant Entomologist.*
H. Marechal, *Agronomist.*
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G. G. Auchinleck, M.Sc. (MacGill), F.I.C., *Deputy Director of Agriculture.*
R. H. Bunting, F.L.S., *Assistant Director for Research and Mycologist.*
T. Lloyd Williams, B.A., *Economic Botanist.*
R. Coull, B.Sc., *Chemist.*
W. H. Patterson, M.B.E., *Senior Entomologist.*
G. A. Cotterell, A.R.C.S., D.I.C., F.E.S., *Entomologist.*
H. A. Dade, A.R.C.S., *Mycologist.*

HONG KONG.

Sanitary Department :—

W. J. E. Mackenzie, *Veterinary Surgeon.*

Botanical and Forestry Department :—

H. Green, *Superintendent.*

JAMAICA.

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F. E. V. Smith, B.Sc., *Microbiologist.*
Vacant—*Entomologist.*
W. L. Barnett, M.C., B.Sc., F.I.C., *Deputy Island Chemist.*
S. Lockett, V.M.D., *Veterinary Surgeon.*
M. S. Goodman, *Superintendent of Public Gardens and Plant Breeder.*
E. Downes, *Horticulturist.*
J. B. Sutherland, *Supervising Inspector of Plant Diseases.*

KENYA.

DEPARTMENT OF AGRICULTURE :—

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 E. Harrison, M.S.A. (Ames), B.Sc. (Edin.), N.D.A. (Hons.), *Deputy Director of Agriculture.*
 A. D. le Poer Trench, Dip. O.A.C., *Senior Coffee Officer.*
 H. Wilkinson, A.R.C.Sc., F.E.S., F.L.S., *Assistant Entomologist.*
 D. L. Blunt, M.A., *Senior Agricultural Officer.*
 J. McDonald, D.F.C., B.Sc. (Hons.), F.L.S., *Mycologist.*
 T. J. Anderson, M.A., B.Sc. (Hons. Edin.), F.Z.S., F.E.S., *Entomologist.*
 T. W. Kirkpatrick, M.A., F.E.S., *Assistant Entomologist.*
 H. C. James, B.Sc., Ph.D., *Assistant Entomologist.*
 G. J. L. Burton, M.C., B.A., *Plant Breeder.*
 R. J. Lathbury, M.A., *Assistant Plant Breeder.*
 V. A. Beckley, M.A., A.I.C., *Agricultural Chemist.*
 D. S. Gracie, B.Sc., *Assistant Agricultural Chemist.*
 A. G. Doherty, M.C., M.R.C.V.S., *Chief Veterinary Officer.*
 H. H. Brassey Edwards, M.R.C.V.S., *Deputy Chief Veterinary Officer.*
 J. Walker, M.R.C.V.S., *Chief Veterinary Research Officer.*
 R. Daubney, M.Sc. (Washington), M.R.C.V.S., *Assistant Chief Veterinary Research Officer.*
 S. H. Whitworth, M.R.C.V.S., B.V.Sc. (Melb.), D.V.M. (Zur.), *Veterinary Research Officer.*
 Prof. R. W. M. Mettam, M.Sc., M.R.C.V.S., *Veterinary Research Officer.*

LEEWARD ISLANDS.

FEDERAL ANTIGUA.

Department of Agriculture :—

- Hon. A. E. Collens, F.I.C., F.C.S., *Government Chemist and Superintendent of Agriculture for the Leeward Islands.*
 F. H. S. Warneford, M.A., B.Sc., A.I.C., F.C.S., *Assistant Government Chemist.*

ANTIGUA.

Botanic Station :—

- A. W. Gallwey, *Agricultural Superintendent.*
 J. H. Allen, *Agricultural Assistant.*

ST. KITTS-NEVIS.

Botanic Station :—

- R. E. Kelsick, *Agricultural Superintendent and Chemical Assistant.*
 W. I. Howell, *Agricultural Instructor, Nevis.*

DOMINICA.

Botanic Gardens :—

J. W. Wright, *Acting Curator and Agricultural Superintendent.*
 F. L. Squibbs, *Assistant Curator.*

MONTSERRAT.

 *Botanic Station :—*

C. A. Gomez, *Curator.*

VIRGIN ISLANDS.

Botanic Station :—

J. L. Illingworth, B.A. (Cantab.), *Curator.*

MAURITIUS.

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 D. d'Emmerez de Charmoy, I.S.O., *Assistant Director and Entomologist.*
 W. H. Edwards, D.I.C., F.E.S., *Assistant Entomologist.*
 N. Craig, M.Sc., *Chemist.*
 R. Lincoln, B.A., *Assistant Chemist.*
 E. F. S. Shepherd, B.S.A., *Botanist and Mycologist.*
 F. E. Lionnet, *Veterinary Surgeon.*
 Y. Lefebure, *Senior Stock Inspector and Officer in Charge Government Dairy.*
 M. Koenig, A.Inst.P., *Statistician.*
 L. Baissac, F.C.S., *Sugar Technologist.*
 R. Avice, A.R.T.C., *Assistant Technologist.*
 C. A. O'Connor, *Chief Agricultural Officer.*
 E. Lesur, *Agricultural Superintendent.*
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NIGERIA.

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 P. H. Lamb, N.D.A., *Deputy Director of Agriculture.*
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 A. J. Findlay, M.A., B.Sc., *Assistant Director of Agriculture.*
 T. Laycock, A.R.C.Sc., D.I.C., *Senior Mycologist.*
 G. H. Jones, M.A., *Mycologist.*
 F. D. Golding, M.A., F.E.S., *Senior Entomologist.*
 O. B. Lean, B.Sc., D.I.C., F.E.S., *Entomologist.*
 C. H. Wright, M.A., F.I.C., *Senior Chemist.*
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 M. Greenwood, M.Sc., *Chemist.*

- C. J. Lewin, M.C., B.Sc., *Senior Botanist.*
 J. K. Mayo, B.A., *Botanist.*
 A. G. G. Hill, B.A., Agr. B., A.R.Sc.C.I., *Botanist.*
 E. H. G. Smith, B.A., *Botanist.*

VETERINARY DEPARTMENT:

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Medical Officers attached Tsetse Investigation.

NORTH BORNEO AND SARAWAK.

NORTH BORNEO.

- D. D. Wood, B.Sc., M. For., *Director of Agriculture and Conservator of Forests.*
 E. Bateson, A.R.C.S., *Mycologist and Agricultural Advisor.*

SARAWAK.

- E. S. Holl, *Director of Agriculture.*
 Howard Smith, *Agriculturist.*

NORTHERN RHODESIA

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 C. Smee, M.C., D.I.C., F.E.S., *Entomologist.*

VETERINARY DEPARTMENT, ZOMBA :—

J. A. Griffiths, F.R.C.V.S., F.Z.S., *Chief Veterinary Officer.*
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 H. Raczkowsky, *Agricultural Chemist.*
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 G. G. Masson, *Inspector of Agriculture and Forests, Northern Circle.*
 A. F. Nathan, O.B.E., B.Sc., *Inspector of Agriculture and Forests, Southern Circle.*
 Mohd. Eff. Ragheb, *Sub-Inspector of Agriculture and Forests.*
 Asaf Grasovsky, B.A., M.Sc., *Sub-Inspector of Agriculture and Forests.*
 S. Antebi, B.Sc. (Edin.), *Sub-Inspector of Agriculture and Forests.*
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 I. Elazari-Volcani, *Director Experiment Station, Rural Economist.*
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 Dr. F. S. Bodenheimer, *Entomologist.*
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 M. Elazari, *Agronomist.*
 Dr. L. Pinner, *Plant Breeder.*
 A. Khasanoff, M.S., *Horticulturist.*
 Dr. Ch. Arlosoroff, *Associate in Rural Economics.*
 D. Uri, *Poultry Husbandman.*
 J. Aharoni, *Zoologist.*
 J. D. Oppenheim, *Plant Physiologist.*
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 A. Eig, *Assistant Systematic Botany.*
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 Dr. J. Perlberger, *Assistant Plant Pathologist.*
 H. Z. Klein, *Assistant Entomologist.*
 S. Rabikovitch, *Assistant Chemist.*
 Dr. I. Yofe, *Assistant Chemist.*
 A. Malzeff, Agr., *Assistant Plant Breeder.*
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 D. MacDonald, *Cotton Specialist.*
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 E. H. W. Kelly, *Superintendent : Government Agricultural Farm.*

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 S. F. Bush, M.Sc., *Zoologist.*

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 C. B. Williams, *Entomologist.*
 G. F. Clay, M.C., B.Sc., *Geneticist.*
 H. H. Storey, Ph.D., *Mycologist.*
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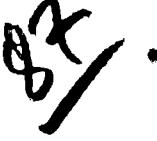
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